

CLAIMS

What is claimed is:

- 21
1. A wireless communication device which provides communication capability for a personal data assistant, the device comprising:
- a housing;
 - a modem within the housing, where the modem provides communication capability for the wireless communication device; and
 - logic in the housing adapted to check for communications.
2. A wireless communication device as recited in Claim 1, the device further comprising:
- an interface board which provides connectivity between the modem and the personal data assistant.
3. A wireless communication device as recited in Claim 2, wherein the communications is electronic mail.
4. A wireless communication device as recited in Claim 1, wherein the personal data assistant is a hand-held data organizer.
5. A wireless communication device as recited in Claim 1, the device further comprising:
- a battery for providing power to the wireless communication device.

6. A wireless communication device as recited in Claim 2, the device further comprising:

a connector board for providing electrical connectivity between the modem and the interface board.

A¹
7. A wireless communication device as recited in Claim 6, wherein the connector board provides mechanical offset between the modem and the interface board.

8. A wireless communication device as recited in Claim 7, wherein the mechanical offset allows the modem and the interface board to fit compactly within the wireless communication device.

9. A wireless communication device as recited in Claim 5, the device further comprising:

a LED light, where the LED light indicates the charge of the battery.

10. A wireless communication device as recited in Claim 1, the device further comprising:

a LED light, where the LED light indicates if the modem has received data.

11. A wireless communication device as recited in Claim 1, the device further comprising:

a LED light, where the LED light indicates if the modem has transmitted data.

12. A wireless communication device as recited in Claim 1, the device further comprising:

a LED light, where the LED light indicates if the modem is registered.

13. A wireless communication device as recited in Claim 1, the device further comprising:

a LED light, where the LED light flashes to indicate a server has communications.

14. A wireless communication device as recited in Claim 1, wherein the modem is a cellular digital packet data (CDPD) modem.

15. A wireless communication device as recited in Claim 1, wherein the logic is a mini microchip.

16. A wireless communication device as recited in Claim 1, wherein the logic periodically checks for message notifications.

17. A wireless communication device as recited in Claim 16, wherein the message notifications indicates that a server has communications for a user.

- 41
18. A wireless communication device as recited in Claim 17, wherein the logic periodically checks for message notifications while the modem is not in use.
19. A wireless communication device as recited in Claim 1, wherein the housing provides a compact configuration for the wireless communication device.
20. A wireless communication device as recited in Claim 1, wherein the logic is a field programmable gate array (FPGA).
21. A wireless communication device as recited in Claim 1, wherein the logic is an application specific integrated circuit (ASIC).
22. A wireless communication device as recited in Claim 1, wherein the logic is a processor.
23. A wireless communication device as recited in Claim 1, wherein the logic is programmable logic.
24. A wireless communication device as recited in Claim 17, wherein the logic periodically checks for message notifications while the modem is in a powered down state.

25. A wireless communication device as recited in Claim 1, the device further comprising:

A1
a detachable antenna coupled with the wireless communication device, where the detachable antenna may be detached when the wireless communication device is not in use.

26. A handheld communication device which provides wireless communication capability for a personal data assistant, the device comprising:

a modem for providing wireless communication for the personal data assistant;
logic in communication with the handheld communication device, where the logic checks for message notifications; and
an indicator which is activated when the logic determines that the modem has received communications.

27. A handheld communication device as recited in Claim 26, the device further comprising:

an interface board for connectivity between the handheld communication device and the personal data assistant.

28. A handheld communication device as recited in Claim 27, the device further comprising:

a housing which encloses the interface board, the modem and the logic, where the housing provides a compact configuration for the handheld communication device.

29. A handheld communication device as recited in Claim 28, the device further comprising:
a connector board which provides mechanical offset between the interface board and the modem such that interface board and the modem fit compactly within the housing of the handheld communication device.

30. A handheld communication device as recited in Claim 26, wherein the personal data assistant is a handheld data organizer.

31. A handheld communication device as recited in Claim 26, wherein the indicator is activated while the personal data assistant is running another application.

32. A handheld communication device as recited in Claim 26, wherein the logic checks for communications received by the modem while the personal data assistant is running another application.

33. A handheld communication device as recited in Claim 26, wherein the indicator is an LED.

34. A handheld communication device as recited in Claim 26, the device further comprising:

a detachable antenna attached to the handheld communication device.

35. A handheld communication device as recited in Claim 26, wherein the message notifications indicate when a user receives communications.

36. A communication device for providing wireless communication for a personal data assistant, the device comprising:

a modem for receiving communications;

an interface in communication with the personal data assistant where the interface provides connectivity between both the communication device and the personal data assistant; and

logic in communication with the communication device, where the logic checks if communications have been received.

37. A communication device as recited in Claim 36, the device further comprising:

a housing having a compact configuration enclosing the modem, the interface and the logic, where the compact configuration of the housing provides a compact configuration for the communication device.

38. A communication device as recited in Claim 36, wherein the logic periodically checks for received communications while a user of the personal data assistant is running another application.

39. A communication device as recited in Claim 36, wherein the personal data assistant is a handheld data organizer.

40. A communication device as recited in Claim 36, wherein the logic is a mini microchip.

41. A communication device as recited in Claim 37, wherein the logic activates an indicator if communications have been received.

42. A communication device as recited in Claim 41, wherein the indicator is a LED.

43. A communication device as recited in Claim 36, wherein the logic is a field programmable gate array (FPGA).

44. A communication device as recited in Claim 36, wherein the logic is programmable logic.

45. A communication device as recited in Claim 36, wherein the logic is an application specific integrated circuit (ASIC).

- A1
46. A communication device as recited in Claim 36, the device further comprising:
a detachable antenna attached to the communication device.

09/18/2018 10:00:00